



SUBSTITUTE SPECIFICATION

RECEIVING APPARATUS, PRINTING APPARATUS, AND FIRMWARE UPDATING SYSTEM

BACKGROUND OF THE INVENTION

5 1. Field of the Invention

The present invention relates to a firmware updating system for updating a firmware of a printer.

2. Description of the Related Art

10 Recently, along with digitization of TV broadcasts, various services became available to the users who watch TV. Among these services, for example, in case of home shopping, e-mail delivery or timetable guide where there is a necessity to reconfirm the services and the information they received, there are many cases where it is
15 convenient for the users to keep at hand a list of names of the products or the e-mails they received, after checking beforehand the details of desired information on the TV screen. Therefore, a system to receive information from a receiving apparatus such as a Set Top Box (STB) and a Digital TV (DTV) so as to print the received
20 information with the printer which is directly connected to the receiving apparatus is useful. Under this system, the STB or the DTV is connected to the printer via an I/F such as an IEEE1394 bus or the like. The following is an explanation of a case where a receiving apparatus is an STB, but the same applies to the case of
25 using a DTV.

The broadcast content delivered through the TV broadcast as mentioned above is described with Broadcast Markup Language (BML) so as to start the broadcasting. It is, however, possible to use other markup language, for instance, Hyper Text Markup
30 Language (HTML). Each file in the broadcast content described with these languages is objectified by a Document Object Model (DOM), a general-purpose Application Programming Interface (API),